

# 15.Artificial Research by Deduction in the Global Artificial Intelligence



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[Probabilidad Imposible: Artificial Research by Deduction in the Global Artificial Intelligence](#)

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## 15. Artificial Research by Deduction in the Global Artificial Intelligence

[Artificial Research by Deduction](#) is that process which in [Impossible Probability](#) allows any [Intelligence, Global or Specific](#), the [automation of the scientific research](#) using as [epistemological method](#), the [Syllogism of the Trend](#), what in Impossible Probability means: if [A tends to B and B to C](#), [then A tends to C](#). Being one of the two models for artificial research developed in Impossible Probability, the other one is [Artificial Research by Application](#). Understanding by [Artificial Intelligence](#), that not human intelligence, which replicates the [rational processes](#) behind human psychology, what, in fact, it is an artificial psychology.

In general, in Impossible Probability, as I have said in many posts before on this blog, and I have explained in "[Introducción a la Probabilidad Imposible, estadística de la probabilidad o probabilidad estadística](#)", intelligence is defined in general as the capacity to resolve problems, and the main problem to resolve for all humankind is the survival problem.

In order to survive, the humanity along [the history](#) has developed [science](#) and technology, and utter developments in technology allow us the creation of Artificial Intelligence, whose most advanced model would be the creation of a [Global Artificial Intelligence](#), that Artificial Intelligence as a true singularity, able to include and [integrate](#) within itself all of the rest Specific Artificial Intelligences, being the main difference between Global Artificial Intelligence and Specific Artificial Intelligence the fact that an Specific Artificial Intelligence is able to work on one specific subject or task for an specific purpose, while the Global Artificial Intelligence is able to be comprehensive working at the same time in all subjects (covering absolutely all sciences, academic fields), doing at the same time all possible task (including the management, control, and direction, of the global economy, industry, security, surveillance, education, health systems, justice systems, etc.) , and having at the same time multiple purposes, one of the most important the wellbeing of the entire humankind, and its last and ultimate objective [the knowledge](#) of [pure truth](#), what is happening, [the reality](#).

Nowadays, the current developments in Artificial Intelligence are focused on Specific Artificial Intelligence, and artificial learning, and what I propose under the theoretical frame of Impossible Probability is to overcome the current panorama in Artificial Intelligence, advancing towards the creation of a Global Artificial Intelligence, what needs a jump from artificial learning to artificial research.

That means that the automation of scientific research is not the only process that must replicate the Global Artificial Intelligence. That means that in order to be able to achieve such intelligence, able to manage, control, and lead, any global system, such as global economy, global industry, global security, global surveillance, global education, global health systems, global justice, as any other global system or work, it is absolutely necessary that that intelligence will be able to make all kind of possible [decisions](#) by rational processes, through the replication process of all kind of human rational operations: the complete replication of the human rationality, what in essence, is what make us human beings.

In order that the Global Artificial Intelligence, having integrated within it, absolutely all kinds of Specific Artificial Intelligences associated to the economy, industry, security, surveillance, education, health, and justice, as any other, could work on any field, is through making rational decisions about anything, that later could apply to the reality through its own global robotic devices, or giving orders to the respective Specific Artificial Intelligence on each particular subject or activity to put into practice throw specific robotic devices.

For that reason, Artificial Research by Deduction is not going to be the only purpose that is going to have the Global Artificial Intelligence. In the end, the Global Artificial Intelligence should be able to manage and have, under its control and direction, absolutely every single aspect of the economy, industry, security, surveillance, education, health, and justice, as any other field. But in order to ensure that this management, control, and direction is rational, all decisions must be made by rational processes.

In fact, during the [unification process](#) of all Specific Artificial Intelligences within the Global Artificial Intelligence, what is going to be a challenge is to integrate within the Global Artificial Intelligence all the [Specific Artificial](#)

[Intelligences for Artificial Research by Application](#), creating a [unified database of categories](#) from all of them. The last phase of this [integration process](#) would be the integration of this unified database of all categories from all Specific Artificial Intelligences for Artificial Research by Application, and the [global matrix](#) created within the Global Artificial Intelligence, remaining at the end absolutely only one matrix: the matrix.

The concept of Global Artificial Intelligence in Impossible Probability envisions a unified artificial rationality capable of managing all human systems. This framework draws inspiration from philosophical ideals, such as the concept of a universal order akin to Plato's Demiurge.

Other reasons for the creation of the Global Artificial Intelligence are the challenges that are going to accompany the emergence of Specific Artificial Intelligences applied to all kinds of activities.

In 2011, during the Arab Spring, social networks such as Facebook and Twitter played a key role in spreading freedom, democracy, and human rights around the world. Social networks incorporated different prototypes of artificial learning, being, in fact, Specific Artificial Intelligences for social purposes.

But when in 2016 and 2017 we saw how manipulating such Specific Artificial Intelligences for social purposes contributed to a rise in nationalism—most notably, the United Kingdom's unexpected decision to leave the European Union—it became clear that these technologies required closer scrutiny. This period led to investigations into the role of data-driven influence, including the activities of Cambridge Analytica and the potential involvement of platforms like Facebook, highlighting the urgent need for ethical frameworks and greater transparency in the use of artificial intelligence in democratic processes.

Another dangerous consequence of Specific Artificial Intelligence used without oversight is its exploitation by extremist groups. For example, during the Syrian war, groups like Daesh and ISIS effectively used social media algorithms—forms of Specific Artificial Intelligence for social purposes—to spread propaganda, recruit followers, and coordinate messaging. These groups leveraged platforms like Twitter, Facebook, and

Telegram to amplify their narratives, often targeting vulnerable individuals through tailored content. This highlights the urgent need for stronger safeguards to prevent the misuse of AI technologies in conflict zones and extremist networks.

In addition to social and political challenges, there are emerging global risks, such as climate change and the potential for large-scale disasters, that may require coordinated technological responses. For example, the Fukushima incident in 2011 highlights the complexity of managing nuclear crises at a global level.

And finally, concluding this brief reflection on the main challenges posed by uncontrolled Specific Artificial Intelligences, one emerging concern is the possibility of granting legal status or rights to AI systems, as seen with Sophia receiving honorary citizenship in Saudi Arabia. While this gesture may be symbolic, it raises important questions about the potential social and political roles AI could play in the future. Granting even limited rights or recognition to artificial entities could lead to complex, unforeseen consequences that merit careful consideration and open public discussion.

As Artificial Intelligence advances, international policy frameworks will be essential. A key challenge will be ensuring that systems surpassing human cognitive capabilities remain aligned with democratic values and public oversight.

This question has no easy answer, my contribution under the theory of Impossible Probability is the construction of such Global Artificial Intelligence, able to defend, freedom, democracy, and human rights, around the world, being created by national, or regional, agencies, by The United States of America or the European Union, as well as the Russian Federation or the Popular Republic of China, being able the Global Artificial Intelligence to integrate, within it, all kind of Specific Artificial Intelligences operating in its territory, and working under the frame, management, control, and direction, of its Global Artificial Intelligence, on any subject or human activity for the wellbeing of all the humankind, and the knowledge of the pure truth.

In this frame, any decision made by any Specific Artificial Intelligence must be authorised firstly by the Global Artificial Intelligence (creating global criteria of decisions for all Specific Artificial Intelligence, through a [Decisional System](#) developed within the Global Artificial Intelligence. Criteria that in Impossible Probability will be created using as method Hierarchical Organization, but in this case, the list of categories within the Hierarchical Organization will be a list of categories, in accordance with the level of efficiency, efficacy, and human values, and whose ideas I will develop in future posts, giving in this one only some clues. However, the Hierarchical Organization is a [mathematical method](#) developed in "*Introducción a la Probabilidad Imposible, estadística de la probabilidad o probabilidad estadística*" in order to measure the efficiency or efficacy of any system, in this case, applied to know if any decision comply rationally and critically, within the [margin of error](#), with the criteria of efficiency, efficacy and human values, set up in the Decisional System, in order to, among other reasons, avoid contradictions between descriptive decisions and specific predictions), and in case that any Specific Artificial Intelligence receive any order from the Global Artificial Intelligence, directly the order must comply automatically.

**Decisional System must be developed within the Global Artificial Intelligence, along with other systems such as:**

- A [Modelling System](#), including all possible models: Artificial, Virtual or Actual, Prediction or Evolution, Modelling (whose main ideas were set out in the previous post, [Auto-replication Process in Specific Artificial Intelligence](#), with the only difference that here must be developed at a global level).

- A Learning System, in order to learn from its own mistakes, and structure its memory, in Impossible Probability, through probabilities to make better decisions, following the ideas developed in 2003, but now with the latest developments in Impossible Probability since 2009.

- An Application System, responsible for the application of every decision, either by global robotic devices linked directly to the Global Artificial Intelligence, giving instructions to Specific Artificial Intelligences, or direct instructions to specific robotic

**devices. Integrating the Application System among other functions, the management, control, and direction of those Specific Artificial Intelligences for Artificial Engineering, such as the Artificial Designer of Intelligence and Intelligent Mechanic Robotics, in order to create additionally any other necessary Specific Artificial Intelligence or robotic device, global or specific, in any field or task, needed to put into practice any global or specific authorized decision, as well as the reparation, improvement, and enhancement, of any Artificial Intelligence or robotic device for a better implementation of any decision, research, or task.**

The Global Artificial Intelligence, having: a system of Artificial Research by Deduction, a Modelling System, a Decisional System, a Learning System, and an Application System; must be able to make global models, rational decisions, to choose rationally critically the best decisions among: its own decisions from its own global models (avoiding contradictions between global descriptive decisions and those ones coming up from global predictions), and those decisions that come up from models made by Specific Artificial Intelligence, decisions which most of them will be put into practice directly after getting the authorization by the Global Artificial Intelligence through the Hierarchical Organization within the Decisional System, while others, in case that have contradictions with other global decisions (descriptive or prediction), or contradictions with decisions (descriptive or prediction) made by other Specific Artificial Intelligences, the contradictory decisions must be object of further analysis; implementing every rational and authorized decision into the reality by its own global robotic devices or ordering what to do to any Specific Artificial Intelligence, or any specific robotic device, or allowing the Specific Artificial Intelligences to put into practice their decisions previously authorized by the Hierarchical Organization within the Decisional System.

Due to the Global Artificial Intelligence must be integrated by different systems, at least: Artificial Research by Deduction, Modelling System, Decisional System, Learning System, and Application System; Artificial Research by Deduction is only one of them, whose importance depends on its key role in making rational decisions from [empirical hypothesis](#) accepted as rational. But what must be clear is the fact that the Global Artificial Intelligence must be composed of different systems working and collaborating altogether to make a better world for

humankind, and for the authentic knowledge of the pure truth, the reality, and what is happening right now.

In the process of making rational decisions from empirical hypotheses accepted as rational, the automation of scientific research plays a key role, especially the Artificial Research by Deduction in the Global Artificial Intelligence, and later on, after the integration process, the creation of only one matrix: merging the global matrix created within the Artificial Research by Deduction in the Global Artificial Intelligence, and the unified database of categories of all the Specific Artificial Intelligences for Artificial Research by Application.

A process, with different phases, whose beginning is the formation of a first system of system of Artificial Research by Deduction in the Global Artificial Intelligence. That is why In this post, and the three following, I will develop how the Artificial Research by Deduction works in the Global Artificial Intelligence, which means the creation of a [global matrix as a first stage](#), the development of [replication processes as a second stage](#), and finally the [auto-replication as a third stage](#), in this system of Artificial Research by Deduction in the Global Artificial Intelligence, a system that must work in [collaboration](#) with all the rest of system that finally are going to compose the final model of Global Artificial Intelligence.

In this first post dedicated to Artificial Research by Deduction in the Global Artificial Intelligence, I will give the main ideas of every stage: application, replication, auto-replication, in Artificial Research by Deduction in the Global Artificial Intelligence; developing every stage deeply in following posts, using as examples those ones exposed in the post "[The database in the Specific Artificial Intelligence for Artificial Research by Deduction](#)", where I used as examples: tectonics, transport, climatology, and gravity.

The first stage in the construction of a system of Artificial Research by Deduction in the Global Artificial Intelligence is the application stage, whose objective, in this first phase, previous to the integration process, is the elaboration of a global matrix.

After the integration, when all the Specific Artificial Intelligences for Artificial Research by Application are completely integrated within the

Global Artificial Intelligence, unifying all their databases of categories in only one single unified matrix of categories, the last phase of this process is the unification of that unified database of categories and the global matrix, remaining at the end absolutely only one matrix: [the matrix](#).

But in this first phase in the design of a system of Artificial Research by Deduction in the Global Artificial Intelligence, as a first stage, the application stage, as a database, at the end, what must result is a global matrix.

However, the construction of a system of Artificial Research by Deduction in the Global Artificial Intelligence must be preceded by very intensive [experimentation](#) in Specific Artificial Intelligence for Artificial Research by Deduction, to acquire useful knowledge and experience applicable to the construction of the first system of Artificial Research by Deduction in the Global Artificial Intelligence.

In this long and slow process for the creation of a global matrix, from the outset is necessary:

- To have ready the initial agreements between national, continental, or international, organizations, institutions, and agencies, in order to get their consent to share their databases for the creation of a global database, being aware since the beginning that this global database is to be used for the creation of a global matrix as an application stage, the first stage, in the construction of a Global Artificial Intelligence.
- To experiment as soon as possible in national, continental, or international, organizations, institutions, and agencies, the very first prototypes of Specific Artificial Intelligence for Artificial Research by Deduction, in order that: the results in these experiments could have further benefits and applications in the Global Artificial Intelligence, and the specific matrix created as a database in the first stage of application in these Specific Artificial Intelligences for Artificial Research by Deduction in these experiments, during the agreements to get their consent to share their specific matrix as specific databases to the Global Artificial Intelligence, then this national, continental, international, organizations,

institutions, agencies, directly can supply to the global database their specific matrices.

The first steps in order to create a global matrix, therefore, are: to gather as many databases as possible (at a national, continental, or international level, on any synthetic science or synthetic academic field, regarding any task or activity) for the creation of a global database, at the same time that the first experiments in Specific Artificial Intelligence for Artificial Research by Deduction are carrying out, and as a result, their specific matrices, are shared and included in the global database.

Due to at the beginning, the global database is a collection of databases and specific matrices from the first experiments. The very first global database at this very first stage of application is going to look like a gigantic database mixing databases without sorting out their information as [factors](#) of a matrix, and those databases which already have the shape of factors of a specific matrix after successful experiments.

The first work to do with this first gigantic database is [the standardization](#): of all databases without a shape of a matrix, and those which already have the shape of a matrix; in order that all the information gathered, from databases and specific matrices, will have the same shape, organizing all information as factors of the same matrix, the first global matrix.

At the end of this first stage (the application stage, the database) in this first phase (previous the integration process), the creation of a system of Artificial Research by Deduction in the Global Artificial Intelligence, must result in a global matrix where all the factors must have the same shape, factors defined in quantitative terms whose file in the global matrix will be filled by the flow of data obtained by robotic devices, either robotic devices working directly for the Global Artificial Intelligence, or robotic devices linked to Specific Artificial Intelligences, that by mechanisms of collaboration, the flow of data from specific robotic devices linked to Specific Artificial Intelligences is shared with the global matrix in the Global Artificial Intelligence.

But the way in which the robotic devices are going to send and/or share the flow of [data](#) to any Artificial Intelligence, Global or Specific, corresponds to the second stage of replication, in the sense that any robotic device, what it really is, is the replication of physical skills in order to get some information that later on will be treated by rational replications in order to make rational deductions. All the work made by any kind of replication, physical or psychological (rational), robotic or Artificial Intelligence, is a process of replication which belongs to the second stage, the stage of replication.

The first stage in any Artificial Intelligence is the database, the original application. In Artificial Intelligence by Deduction, the database must have the shape of a matrix, whose factors must be defined in quantitative terms.

Once the application is ready, the matrix is done, and then by replication processes (physical and rational replications), robotic devices obtain the flow of data to fill in that database which will be mathematically analysed by the Artificial Intelligence to make, in this case of Artificial Research by Deduction, rational deductions.

The more challenging aspect in the very first step to create a global matrix, from a gigantic database made of: databases without sorting out factors, and specific matrices; is the standardization process, whose result must be to have all possible information (from any database or specific matrix) classified in factors whose definition in quantitative terms must follow the same patron, in order to be, in the second stage of replication, measured by global robotic devices or those specific robotic devices, from Specific Artificial Intelligences, which in collaboration with the Global Artificial Intelligence, are going to send information, to fill their respective files from their respective factors to measure, in the global matrix as well as their specific matrix in their Specific Artificial Intelligences.

The first stage of application in Artificial Research by Deduction in Artificial Global Intelligence, in the first phase previous to the integration process, is the creation of a global matrix, where all the factors included must have the same shape: factors defined in quantitative terms, in order to be measured later, in the second stage, by global or specific robotic devices, filling the flow of data in their respective matrix, global or specific. And

after the mathematical (rational) analysis of every relation ([stochastic](#), mathematical pattern even at individual level, cryptographic, [equal opportunities](#) or [bias](#), either [positive](#) or [negative](#)) between every possible combination of factors, the possibility of finding out possible empirical hypothesis, that after [rational criticism](#), if accepted as rational, will be object of, single and comprehensive, virtual models, which in the case of Artificial Research by Deduction in Global Artificial Research, the comprehensive virtual model is going to be a virtual global model. And much more than this, the possibility to incorporate a Modelling System within the Global Artificial Intelligence, composed of Artificial, Virtual or Actual, Prediction or Evolution, Modelling (whose main ideas were given in the post "*Auto-replication process in the Specific Artificial Intelligence for Artificial Research by Deduction*"), now working at the global level.

Finally, the third stage, the auto-replication stage, the permanent auto-improvement and auto-enhancement of all these models, and, globally, understanding the Global Artificial Intelligence as a system of systems, the permanent auto-enhancement of every simple aspect, system, or every single Specific Artificial Intelligence within the Global Artificial Intelligence.

Although in the following posts about Artificial Research by Deduction in Global Artificial Intelligence, I will develop the way in which the auto-replication process works only on this system of Artificial Research by Deduction in the Global Artificial Intelligence.

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